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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	2236.0040000/JUK/GSB
First Inventor	KIM et al.
Title	METHOD FOR FABRICATING PT-MOx NANOPHASE ELECTRODES FOR HIGHLY EFFICIENT DYE-SENSITIZED SOLAR CELL
Express Mail Label No.	

	APPLICATION ELEMENTS apter 600 concerning utility patent application contents.	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450				
(Submit a 2. X Applican See 37 (3. X Specifica (preferred - Descrip - Cross R - Stateme - Referen or a con - Backgro - Brief Su - Brief Su - Brief De - Detailec - Claim(s	d arrangement set forth below) bitive title of the invention Reference to Related Applications ent Regarding Fed sponsored R & D noe to sequence listing, a table, mputer program listing appendix ound of the Invention ummary of the Invention escription of the Drawings (if filed) d Description	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS				
4. X Drawing 5. Oath or Decla a. X Newl b. Copy (for c) i. D Si na 1. 6. X Applic	g(s) (35 U.S.C. 113) [Total Sheets] aration [Total Sheets3] by executed (original or copy) y from a prior application (37 CFR 1.63(d)) continuation/divisional with Box 18 completed) DELETION OF INVENTOR(S) igned statement attached deleting inventor(s) ame in the prior application, see 37 CFR .63(d)(2) and 1.33(b). cation Data Sheet. See 37 CFR 1.76	9. X Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. X Preliminary Amendment 14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. X Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other: Authorization under 37CFR 1.136(a)(3) The name of the assignee is: Kwangju Institute of Science and Technology				
specification follo	owing the title, or in an Application Data Sheet under 3					
Continuation Divisional Continuation-in-part (CIP) of prior application No.:						
·		DENCE ADDRESS				
	er Number: 26111	OR Correspondence address below				
Name	Sterne, Kessler, Goldstein & Fox P.L.L.C					
Address	1100 New York Avenue					
City	Washington	State DC Zip Code 20005				
Country		elephone Fax				
Name (Print/Type	George S. Bardmesser	Registration No. (Attorney/Agent) 44,020				
Signature	UKY	Date 1/23/04				

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03) Approved for use through 07/31/2006. OMB 0651-0032

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FEE TRANSMITTAL for FY 2004 Effective 10/01/2003. Patent fees are subject to annual revision.		Complete if Known	
		Application Number	To Be Assigned
		Filing Date	Herewith (January 23, 2004)
		First Named Inventor	KIM et al.
- <u>-</u>		Examiner Name	To Be Assigned
X Applicant claims small entity status. See 37 CFR 1.27		Art Unit	To Be Assigned
TOTAL AMOUNT OF PAYMENT	(\$) 425.00	Attorney Docket No.	2236.0040000/JUK/GSB
TOTAL AMOUNT OF PAYMENT	(\$) 425.00	Attorney Docket No.	2236.0040000/JUK/GSB

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)
Check X Credit card Money X Other** None	3. ADDITIONAL FEES
*Charge any deficiencies or credit any overpayments in	Large Entity Small Entity
Deposit	Fee Fee Fee Fee Description Fee Paid Fee Paid
Account 19-0036 Number	1051 130 2051 65 Surcharge - late filing fee or oath
Deposit Account Name Sterne, Kessler, Goldstein & Fox P.L.L.C.	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet
The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification
Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month
	1252 420 2252 210 Extension for reply within second month
1. BASIC FILING FEE Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month
Fee Fee Fee Fee Description Fee Paid	1254 1,480 2254 740 Extension for reply within fourth month
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee	1255 2,010 2255 1,005 Extension for reply within fifth month
1002 340 2002 170 Design filing fee 385.00	1401 330 2401 165 Notice of Appeal
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding
	1452 110 2452 55 Petition to revive - unavoidable
SUBTOTAL (1) (\$) 385.00	1453 1,330 2453 665 Petition to revive - unintentional
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1,330 2501 665 Utility issue fee (or reissue)
Extra Claims below Fee Paid	1502 480 2502 240 Design issue fee
Total Claims	1503 640 2503 320 Plant issue fee
Claims	1460 130 1460 130 Petitions to the Commissioner
Multiple Dependent 0 = 0	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)
Large Entity Small Entity	1806 180 1806 180 Submission of Information Disclosure Stmt
Fee Fee Fee Fee Fee Description Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties) 40.00
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))
1203 290 2203 145 Multiple dependent claim, if not paid	1810 770 2810 385 For each additional invention to be
1204 86 2204 43 ** Reissue independent claims over original patent	examined (37 CFR 1.129(b)) 1801 770 2801 385 Request for Continued Examination (RCE)
1205 18 2205 9 ** Reissue claims in excess of 20	1802 900 1802 900 Request for expedited examination
and over original patent	of a design application
SUBTOTAL (2) (\$) 0	Other fee (specify)
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00
SUBMITTED BY	(Complete (if applicable))
Name (Print/Type) George S. Bardmesser	Registration No. (Attomey/Agent) 44,020 Telephone (202) 371-2600
Signature .	Date 1/23/04

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JAN 23 TON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

KIM et al.

Appl. No.: To Be Assigned

Filed: Herewith (January 23, 2004)

For: Method for Fabricating Pt-MOx Nanophase Electrodes For Highly Efficient Dye-Sensitized Solar Cell Confirmation No.: To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 2236.0040000/JUK/GSB

Authorization to Treat a Reply as Incorporating an Extension of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

George S. Bardmesser Attorney for Applicants Registration No. 44,020

Date: January 23, 2004

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Mail Stop Patent Application

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Of Counsel Kenneth C. Bass III Evan R. Smith

*Admitted only in Maryland *Admitted only in Virginia *Practice Limited to Federal Agencies

January 23, 2004

WRITER'S DIRECT NUMBER: (202) 772-8782 INTERNET ADDRESS: GBARDMES@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

U.S. Non-Provisional Patent Application under 37 C.F.R. § 1.53(b)

Appl. No.: To Be Assigned; Filed: Herewith (January 23, 2004)

For: Method for Fabricating Pt-MOx Nanophase Electrodes For Highly **Efficient Dye-Sensitized Solar Cell**

Inventors:

KIM et al.

Our Ref:

2236.0040000/JUK/GSB

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- PTO Utility Patent Application Transmittal (Form PTO/SB/05); 2.
- 3. U.S. Utility Patent Application entitled:

Method for Fabricating Pt-MOx Nanophase Electrodes For Highly Efficient **Dye-Sensitized Solar Cell**

and naming as inventors:

Seok-Soon KIM, Kyung-Won PARK, Jun-Ho YUM and Yung-Eun SUNG

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A facsimile copy of the original executed Combined Declaration and Power of Attorney;
- c. A specification containing:
 - ten (10) pages of description prior to the claims;

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skqf.com



Commissioner for Patents January 23, 2004 Page 2

- ii. two (2) pages of claims (14 claims);
- iii. a one (1) page abstract;
- d. Thirteen (13) sheets of drawings (FIGs. 1, 2, 3A, 3B, 4, 5, 6, 7, 8A, 8B, 9, 10 and 11);
- 4. A Preliminary Amendment;
- 5. A certified copy of Korean Application No. <u>2003-0050234</u>, filed <u>July 22</u>, <u>2003</u>, priority of which is hereby claimed;
- 6. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 7. Recordation Form Cover Sheet;
- 8. A facsimile copy of the original executed Assignment to **Kwangiu**Institute of Science and Technology, recordation of which is hereby respectfully requested;
- 9. Two (2) return postcards;
- 10. Form PTO-2038 Credit Card Payment Form in the amount of \$425.00 to cover:

\$385.00 Utility Filing fee; and \$40.00 Assignment Recordation fee.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

George S. Bardmesser Attorney for Applicants Registration No. 44,020

JUK/GSB:krh Enclosure

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